

NUMBERS & ODDITIES

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-::: N&O #77, September 2004 :::-

Editing the WUN CD, study, work and other obligations are seriously limiting the time that I can use to write my columns. It is therefore unlikely that N&O will be published in October. For this edition I've got info and logs from Attu, Pat, Fritz, Wolfgang, Tomonori, Al, Tom H, Robert, Costas, Jochen, Hugh, Leif, John, Rimantas and Tony. Thanks for that gentlemen!

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* VOICE STATIONS *

::: E03

Lincolnshire Poacher's IDs in the first half of the month. Compiled by Al.

UTC	Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC
1200	18679	18679	18679	18679	18679	18679	18679	1200
1300	54965	54965	54965	54965	54965	54965	54965	1300
1400	82666	69501	02018	58910	18679	12860	66309	1400
1500	66309	82666	69501	02018	58910	18679	18519	1500
1600	18519	66309	82666	69501	02018	58910	12860	1600
1700	12860	18519	66309	82666	69501	02018	18679	1700
1800	18679	12860	18519	66309	82666	69501	58910	1800
1900	58910	54965	12860	54965	66309	82666	54965	1900
2000	54965	18679	54965	18519	54965	66309	02018	2000
2100	02018	58910	18679	12860	18519	54965	69501	2100
2200	69501	02018	58910	18679	12860	18519	82666	2200

Second half of the month.

UTC	Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC

1200	49795	49795	49795	49795	49795	49795	49795	1200
1300	58203	58203	58203	58203	58203	58203	58203	1300
1400	80904	62733	23869	93761	49795	21339	09931	1400
1500	09931	80904	62733	23869	93761	49795	71111	1500
1600	71111	09931	80904	62733	23869	93761	21339	1600
1700	21339	71111	09931	80904	62733	23869	49795	1700
1800	49795	21339	71111	09931	80904	62733	93761	1800
1900	93761	58203	21339	58203	09931	80904	58203	1900
2000	58203	49795	58203	71111	58203	09931	23869	2000
2100	23869	93761	49795	21339	71111	58203	62733	2100
2200	62733	23869	93761	49795	21339	71111	80904	2200

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::: E04 (E03a)

Cherry Ripe's IDs in the first half of the month. Compiled by Tomonori.

UTC	Sun	Mon	Tue	Wed	Thu	Fri	UTC
2200	20751	83282	70807	70159	83282		2200
2300	83282	70807	70159	83282	24124		2300
0000		70807	70159	83282	24124	45029	0000
0100		70159	83282	24124	45029	09797	0100
1000		83282	24124	45029	09797	20751	1000
1100		24124	45029	09797	20751	83282	1100
1200		45029	09797	20751	83282	70807	1200
1300		09797	20751	83282	70807	70159	1300

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::: E10

At the time of writing only one string has been reported:

3360 kHz, 1945 UTC, 7 Sept: VLB 91

Rober Swartz checks in with a note about long running messages; meassges that are repeated day after day at the same time.

"At that time, the apparent winner was a message from YHF that may have ran from as early as 1999-12-31 to as late as 2000-03-20; 68 FYSTL.

As a new entry for the title, I would like to submit 29 AONZA from ULX that was first heard on 23 March 2004 at 0230z still there, approx 165 days.

Interestingly enough, this schedule has a daily repeat at 2000z. Jochen "the Kopf" reported 29 AONZA on 28 March and 28 June on the 2000z schedule.

Repeats by ULX at 0230z and 2000z have been noted as early as 21 January 2004 when 111 DSAEQ was also a daily repeat. No earlier 0230x and 2000z daily repeats can be confirmed. Wonder how long it will last."

Keep us posted, Robert !

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::: S17C

Active as ever and since 1 September on 5301 and 8190 kHz with its daily broadcast at 1250 UTC.

<<<<<>>>>>

::: S25

Heard by Igor on 8025 kHz at 1540 UTC on 24 Sept.

245 245 245 67765 67765 (rptd)
245 245 245 54865 54865 (rptd)
22222 00000

(recording available from the N&O website)

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::: V02a

V02/M08 have been of the air for a while after a hurricane hit Cuba. Radio Havana has had a lot of technical problems too.

<<<<<>>>>>

::: V25

John reports a V25 transmission on 8870 kHz at 1300 UTC. The Chinese lady sounded machine generated, he says.

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★ MORSE STATIONS ★

::: MX

"P" experienced some problems on 5982 kHz on 16 Sept. It transmitted "PW" for a while. The marker was regularly interrupted by messages from RDL.

The "L", "R" and "V" markers were audible throughout the month on their usual frequencies.

All cluster beacons have been heard in September, some daily, others only a couple of days.

<<<<<>>>>>

::: M21

Active on 4811 and 6978 kHz. Station id "8".

=992000??8?????

=992001??8?????

<<<<<>>>>>

::: M22 UPDATE

A 4XZ update was received from Fritz. Before we kick off, I have two remarks with regard to the update:

It is believed that like many other countries, Israel is using the CW station as training and backup facility.

Re the Central European remark in Ad.1: There are rumours that 4XZ is using the Russian relay center in Khiva, but this has never been confirmed, not officially and not by df's.

Ary

The update.....

4XZ is - officially - operated by the Israeli Navy in Haifa. Whether this really is the case may be questioned however. Its workload is evenly distributed and there are no fixed schedule transmissions for weather like those of CIS Navy. It is hard to believe the Israeli Navy uses an outdated and slow protocol like the WMO FM46-IV.

ENIGMA named 4XZ M22 and E2K published the last profile in January 2003. WUN's profile appeared in N&O Nr.14 in 1999 with an update in December

2002. 4XZ did not change its habits for years. Some additional and updated observations follow here. I used my own loggings and those in N&O. Ary Boender kindly delivered his valuable old 4XZ logs.

1. Transmitters and frequencies

It is not clear, whether all transmissions originate from Israel. Some simple comparisons of propagation would support this assumption for Central Europe. 4XZ operates 2 broadcasts in CW. Traffic seems to be completely software controlled. Speed is adapted if time is running short, frequencies sometimes vary up to 2 kHz.

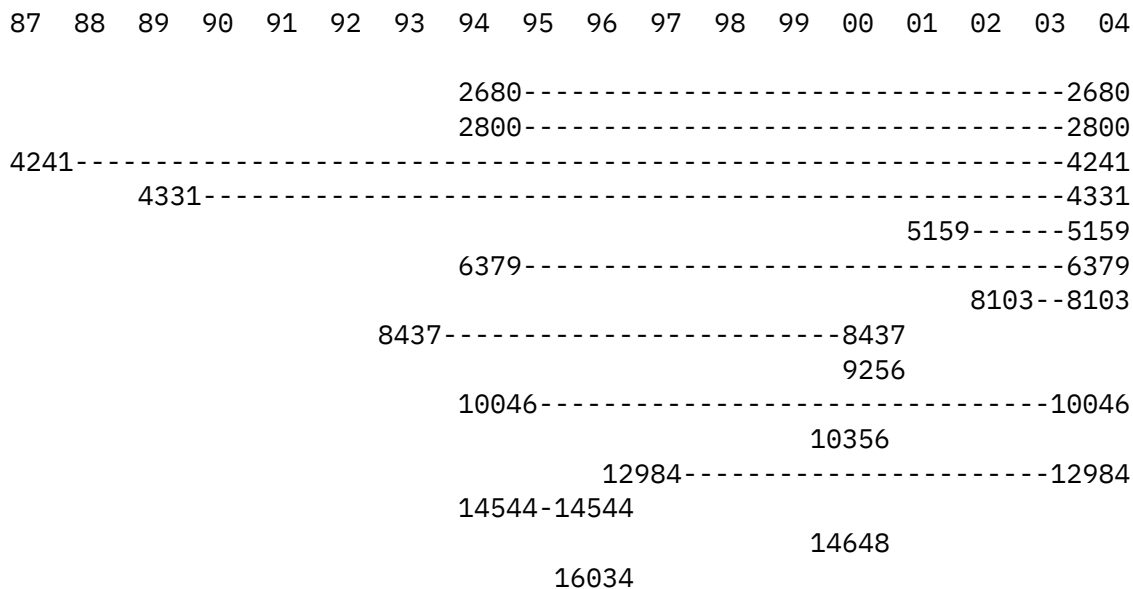
Actually the following schedule is 24/7 in use:

Broadcast 1: 2800//4241//5159//8103//10046//12984

Broadcast 2: 2680//4331//6379

This is a set of standard frequencies. Additional frequencies sometimes show up for days/weeks and replace or complete the set. They may be used again after many years or may be new. Only once however I have seen a time coincidence - the same frequency was used for 3 days again the following year. 4XZ uses Radio Amateur bands as well, but reluctantly disappeared upon complaints.

This rough graphic shows the development of 4XZ's frequencies. Only regularly used frequencies are mentioned. 4XZ kept the low frequencies over many years, but abandoned all regular frequencies above 12984 kHz in Jan. 2001. A compilation of nearly all frequencies logged so far is available on request.



17050-----17050
18482
19657-19657

2. Transmission formats

Both broadcasts use the same formats. Around 9 out of 10 messages are encrypted 5LGs, weather 5FGs and service messages are very rare catches.

2.1. Idling format

vvv de 4XZ 4XZ = = Rptd if no traffic
vvv de 4XZ 4XZ = = + + Traffic follows

2.2. Traffic formats

nw QTC 1 nr 2701 New message 1072 follows

nw rpt nr 2701 Message 1072 will be repeated.
Normally messages are repeated about 60 min later. If messages are long time runs short and transmission speed is increased. Some messages are repeated twice.

2.2.1. Traffic in offline encrypted 5LG

= = nr 2701 xi v dn8i 009092 ed4k gr 73 = = 5LGx37
= = nr 2701 xi v dn8i 009092 ed4k gr 73 = = 5LGx37 (repetition)
= = nr 2701 xi v dn8i 009092 ed4k gr 73 = = + +

Every 40 groups: = = aa gr 04 = =, = = aa gr08 = =, etc

2.2.2. Traffic in Hebrew(?) Morse

= = nr 7701 qc a colc 439092 fw8i wnc = = FLG with punctuations
= = nr 7701 qc a colc 439092 fw8i wnc = = FLG with punctuations (repetition)
= = nr 7701 qc a colc 439092 fw8i wnc = = + +

2.2.3. Surface analysis/prognosis in WMO FM46-IV coding

= = nr 6701 qc z wt6d 038092 ks5x wnc = = 5FG
= = nr 6701 qc z wt6d 038092 ks5x wnc = = 5FG (repetition)
= = nr 6701 qc z wt6d 038092 ks5x wnc = = + +

Weather messages are sent about 5 Wpm faster than the other formats.

2.2.4. Service messages

re4p re4p re4p QSL nr 261 = = + +

ow7e ow7e ow7e nr 5011 to 8011 , 4111 to 7111 QQL = = + +

2.2.5. Interruption of traffic in process

sri sri sri vvv de 4XZ 4XZ vvv de 4XZ 4XZ = = + + nw QTC 1 nr 896
(new msg)

These messages interrupt traffic at any time; even right in the middle of a 5LG. The concerned message is repeated later on. As service messages are very rare I could not discover, why the transmissions have been stopped. Wrong sequence? Faulty transmission? Urgent message to follow?

3. Traffic load

The monthly amount of traffic is evenly spread and quite stable.

Broadcast 1: about 40 messages/day, about 1200/month

Broadcast 2: about 16 messages/day, about 500/month

4. Message preambles

= = nr 2701 xi v dn8i 009092 ed4k gr 73 = = ekeke wmhit (5LGx35)

2701 Message number 1072 (in reverse order)
 Is reset to 1 the first day of the month.

xi Format: LL
 Purpose unknown, same set is used several times a day and at
 a later date again.

v Format: L
 Identifier: A Message in Hebrew Morse follows
 V Message in 5LG follows
 Z Message in 5FG (weather) follows

dn8i Format: LLFL (exception: LLLL)
 Purpose unknown, same set is used several times a day, but
 never observed again at a later date (database too small).

009092 Date/msg preparation time (in reverse order)
 29 Day
 0900 LT (UTC+3/+4, Israel observes DST)
 A whole series of messages may be sent with same time.
 Messages may be delayed many hours before transmission.

ed4k Format: LLFL (exception: LLLL)
 Purpose unknown, same set is used several times a day, but
 never observed again at a later date (database too small).

73 Group count 37 (in reversed order).
 Group counts observed between 7 and 185.
 wnc is sent instead of the group count for
 message formats 2.3. and 2.4.

ekeke First 5LG only contains two letters, normally first and forth
 of ed4k group.
 In message format 2.3. first group normally is Ñondenì.

wmhit Second 5LG is same as last one, completeness of message is
 checked.

For further investigation it doesn't matter whether the whole preamble
 is sent in reversed order or only parts of it (which is unlikely).

The service messages do refer to the two LLFL groups. One may assume
 they contain encrypted information about sender and addressee, which is
 changed daily. Otherwise there would be many Thousands of addresses and
 this is unlikely. Both groups are split into LL and FL elements. Very
 often one of these elements can be found the same day in the second LLFL
 group. My database of 4XZ preambles is not big enough to tell more about
 the repetition rate of these two groups.

Only 4XZ broadcasts encrypted addressees. All Navy stations I know about
 use Ñnormalì QRAs, even though we cannot assign them to a certain ship.
 I would be surprised, if 4XZ indeed belongs to the Israeli Navy.

In this connection it would be interesting to learn more about the
 contents of those Hebrew Morse messages. All my amateurish attempts to
 translate character by character with several Hebrew alphabets failed
 pitiful...

Fritz

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::: M89

Chinese naval stations with their typical call-up observed by Attu and Dekka:

V BFR7 BFR7 BFR7 DE 4XML 4XML	5755 kHz
V KD2N KD2N KD2N DE AI8W AI8W	6828 kHz
V CP17 CP17 CP17 DE L9CC L9CC	7076, 7082.5, 7092 kHz
V XY5V XY5V XY5V DE 4PPW 4PPW	4927, 8046 kHz. In May logged by Attu on 3845 kHz but erroneously noted as XYHV
V GM3Z GM3Z GM3Z DE PNW9 PNW9	5635 kHz
V HJ4I HJ4I HJ4I DE YI4K YI4K	4770 kHz

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* VARIOUS MODES *

::: X06 / M42

The jolly Mazielka tones have been observed on:

6850.4 kHz, 2301 UTC, 17 Sept.
9105.0 kHz, 2000 UTC, 7 Sept.
10205.0 kHz, 2000 UTC, 7 Sept.
11093.0 kHz, 2000 UTC, 7 Sept.
15828.0 kHz, 1623 UTC, 14 Sept.

Digital transmissions:

8079.0 kHz, 2020 UTC, 4 Sept, Mode: Baudot 200.33Bd
Russian intelligence. Null message to 162.
10165.0 kHz, 2100 UTC, 4 Sept, Mode Baudot 200.33Bd
Russian intelligence. Null message to 162.
10198.5 kHz, 1212 UTC, 12 Sept. Dept of State Comms, Moscow.
Mode: PSK + MFSK, switching between 25-tone parallel tone
PSK-modem and 32-tone/40Bd MFSK, Crowd36.

<<<<<>>>>

S28 - the Buzzer on 4625 kHz.

Note: the typical hour tone has disappeared.

S30 - the Pip on 3756 kHz and also on 7512 kHz. The latter could be
an harmonic but sounds like it is a separate transmission.

XSW - Squeaky wheel on 3828.9 kHz.

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* MILITARY STATIONS *

::: RUSSIA

A couple of months ago we published an article about Russian military stations. An observant reader noticed an error with regards to general call "WLHN" and explains:

"WLHN is the CQ from Moscow to all staff of the army, navy and air force. Before a station (for instance RMP) sends a code word XXX with general call WLHN it has already been sent out by Moscow via the other co-networks to the various staffs.

After a code word transmission you should listen to the known frequencies of the various staffs because they relay a code word within 5 to 30 minutes, depending on the place in the hierarchial structure. The message goes top-down from the General Staff in Moscow to the lowest level: CQ WLHN.

About the priority codes:

SML = samoljot > aircraft

RKT = Raketa > rocket (higher in the hierarchy)"

Thanks, OM. Much appreciated.

<<<<<>>>>>

::: CIS MILITARY LOGS

Only a few logs logs this time:

3826 Ukranian Military; c/s MIKT, SUZO, JHVF, 3YFJ, BS4B, 7T1D, BA6I,
 YWYY, V1JA, QT5Z, SOLN, THE8, VITR, FCSD, BL0T
4489 CIS Military; c/s IY4H, PYT6, 2ZCZ, 6AM8
5381 CIS Military; c/s 4YWZ
11000 RIW wkg RMG89, RHM81, RHV42, RNG48, RGZ58
19304 RIT wkg RMZW, RAL46.
 vvv rmzw rmzw rmzw de rit rit qsa k
 vvv ral46 ral46 ral46 de rit rit qsa qtc k
 followed by a 4FG message = ar

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::: UNID

Not 100% certain, but most likely Russian mil:

4136 kHz: Channel marker "UXU0"

Besides changing the callsign from POCI in August to UXU0, they also

changed the schedules.

Schedules:	old	new
	-----	-----
	h+15 to h+25	h+55 to h+05
	h+45 to h+55	h+25 to h+35

Alternative frequency: 3700 kHz.

(info: Attu Bosch)

<<<<<>>>>>

::: UNID 2

Logged by Igor: 10284 kHz, 1500 UTC, 23 Sept., hand keyed.

vvv kaw kaw kaw de pol pol pol msg (rptd)
nr 047 nr 047 ck 82 ck 82 = =
5n5u5 47dt4 a5ta3 u6n3n 7744u 553d5 4nddu utda6 4untd ua5tn
t3n7n dt6t6 u75uu 3d6u3 n33d7 3td3n 6tttd 6t767 tud76 d5da6
ann5d dttaa 7n47n tatn3 65tnu t6dat t6aut nntdn dt63d d6t5a
555td t4ad3 na637 7535a 5uan7 utdu6 347nt 44dd3 d5anu u3t45
3335d tn35u 7n4a5 43u7u 6duna 4au7a ntna6 473u3 63aud t3467
7ndu6 nu553 n3n53 3d6u3 74ud3 46uut t377d 345nt 4n754 a37d4
d7a63 tautu t77du 6dad6 7uta5 dn75n ud3u6 u6ud3 ad35a 574at
aau7u adda6 u5ntu tdu6u 6435t ta734 3tut7 3a6d5 a343u 644tn
34nnn 4tnat
ar ar znn va ee

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* INTELLIGENCE NEWS *

::: RUSSIA

The bloody take-over of a middle school in southern Russia in early September has prompted the Kremlin to turn to a new ally in its fight against terrorism. In the wake of the hostage-taking and subsequent siege, Russian President Vladimir Putin spoke by phone with Israeli Prime Minister Ariel Sharon, who pledged his government's cooperation with Moscow in "political and intelligence efforts to destroy terror." Russian Foreign Minister Sergey Lavrov and his Israeli counterpart, Silvan Shalom, quickly codified these commitments, inking a memorandum of understanding on September 6th, during Lavrov's visit to Israel. According to officials in Jerusalem, the new pact is designed to "encourage in every possible way the development of broad bilateral, regional and multilateral cooperation in fighting international

terrorism." (Washington Times, September 7, 2004)

Pakistan's Foreign Minister Khurshid Kasuri said on Saturday that his country will more actively share its intelligence with Russia to assist in fighting terrorism, news reports said.

"Our intelligence service will be more actively providing Russia with its information for catching terrorists. Sharing information is crucial in fighting terrorism," Kasuri said in Moscow, where he was on a brief stopover en route to Tajikistan. (source: Pakistan Times)

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::: ISRAEL

Israel's "OFEQ-6" spy satellite crashed before reaching orbit. The satellite was launched on September 6 at 1053 UTC. The third stage of the Shavit launch vehicle failed to operate and the payload fell in the Mediterranean.

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* LOGS SECTION *

3150.0	E10	PCD USB 2-9-2004 Thu 0300 (BS4)
3150.0	E10	PCD USB 14-9-2004 Tue 0300 (BS4)
3202.8	MX	SLHFB "L" CW 19-9-2004 Sun 0338 (AN EUR)
3202.8	MX	Channelmarker "L", Tirana CW 30-9-2004 0047 (WC)
3270.0	E10	CI02//4648 USB 24-9-2004 Fri 0245 (BS4)
3292.0	V02a	in progress at tune in. USB 21-9-2004 Tue 0208 (MT2)
3292.0	V02a	in progress. Brief dead air 0207 - 0208, then resumed USB 28-9-2004 Tue 0203 (MT2)
3297.0	V02a	In progress. Weak. AM 9-9-2004 Thu 0543 (MT2)
3360.0	E10	"VLB91" USB 7-9-2004 Tue 1945 (AN EUR)
3360.0	E10	VLB2 USB 24-9-2004 Fri 0245 (BS4)
3360.0	E10	KPA2//4648, 7811 USB 29-9-2004 Wed 0115 (BS4)
3415.0	E10	ART USB 1-9-2004 Wed 0130 (BS4)
3699.5	MX	SLHFB "P" (Kaliningrad) CW 14-9-2004 Tue 2200 (AN EUR)
3840.0	E10	YHF2//4560 USB 27-9-2004 Mon 0330 (BS4)
4015.0	E10	VLB2 USB 14-9-2004 Tue 0145 (DM)
4030.0	V02	AM 25-9-2004 Sat 0320 (DAP)
4165.0	E10	USB 17-9-2004 Fri 2215 (SE-G)
4165.0	E10	MIW2 USB 23-9-2004 Thu 0115 (BS4)
4165.0	E10	MIW2 USB 25-9-2004 Sat 0215 (BS4)
4173.0	M08c	i/p CW 22-9-2004 Wed 1125 (BM)
4329.0	V02a	I/P at 0439Z; good signal (S7) but QRM & distorted USB 1-9-2004 Wed 0400 (ZW)
4360	E10	KPA 2 AM 5-9-2004 1718 (KK2)

4360.0 E10 KPA2 USB 23-9-2004 Thu 0115 (BS4)
4360.0 E10 KPA2 USB 25-9-2004 Sat 0215 (BS4)
4424.5 MX Channelmarker "L", Tirana CW 30-9-2004 0601 (WC)
4454.0 S21 454-867/31=75156 4454 strong, 4854 weak, AM 7-9-2004
Tue 1842 (HFD)
4461.0 E10 FTJ in tfc USB 11-9-2004 Sat 2300 (BS4)
4461.0 E10 FTJ 11 EHKR? USB 14-9-2004 Tue 0300 (BS4)
4461.0 E10 FTJ 12 RCTDW USB 22-9-2004 Wed 0300 (BS4)
4461.0 E10 FTJ 8 SVGXM USB 23-9-2004 Thu 0100 (BS4)
4461.0 E10 FTJ 8 SVGXM USB 24-9-2004 Fri 0100 (BS4)
4461.0 E10 FTJ 45 KJMVS USB 28-9-2004 Tue 0100 (BS4)
4480.0 V02 AM 29-9-2004 Wed 0300 (S00Z)
4557.7 MX SLHFB "D" CW 19-9-2004 Sun 0335 (ANEUR)
4558.0 MX SLHFB "C" CW 19-9-2004 Sun 0335 (ANEUR)
4560 E10 YHF 2 AM 3-9-2004 2100 (KK2)
4560.0 E10 YHF in tfc USB 11-9-2004 Sat 0230 (BS4)
4560.0 E10 YHF2//3840 USB 27-9-2004 Mon 0330 (BS4)
4560.0 E10 in progress. // 9130. This was the better frequency
for rec USB 29-9-2004 Wed 0236 (MT2)
4648.0 E10 CI02 USB 14-9-2004 Tue 0145 (DM)
4648.0 E10 CI02//3270 USB 24-9-2004 Fri 0245 (BS4)
4648.0 E10 CI02//6930 USB 28-9-2004 Tue 0345 (BS4)
4648.0 E10 KPA2//3360, 7811 USB 29-9-2004 Wed 0115 (BS4)
4661.0 E10 //6840 //9130 USB 11-9-2004 Sat 2330 (DM)
4770.4 M89 V HJ4I HJ4I HJ4I DE YI4K YI4K CW 30-9-2004 1250 (DJ)
4780.0 E10 SYN2 USB 24-9-2004 Fri 0245 (BS4)
4811 M21 Russian Air Defense. Station id "8" CW 30-9-2004 1600
4854.0 S21 454-867/31=75156 4454 strong, 4854 weak, AM 7-9-2004
Tue 1842 (HFD)
4880 E10 ULX 2 AM 1-9-2004 1800 (KK2)
4880.0 E10 ULX2/6270 USB 5-9-2004 Sun 1830 (JS3)
4880.0 E10 ULX 29 AONZA USB 6-9-2004 Mon 0230 (BS4)
4880.0 E10 ULX2 USB 6-9-2004 Mon 2230 (BS4)
4880.0 E10 ULX USB 8-9-2004 Wed 0200 (BS4)
4880.0 E10 ULX 29 AONZA USB 11-9-2004 Sat 0230 (BS4)
4880.0 E10 USB 12-9-2004 Sun 0030 (SE-J)
4880.0 E10 USB 17-9-2004 Fri 2145 (SE-G)
4880.0 E10 ULX 29 AONZA USB 21-9-2004 Tue 0230 (BS4)
4880.0 E10 ULX USB 22-9-2004 Wed 0200 (BS4)
4880.0 E10 ULX 25 GZIZF USB 27-9-2004 Mon 0030 (BS4)
4880.0 E10 ULX2 USB 27-9-2004 Mon 0330 (BS4)
4927 M89 V XY5V XY5V XY5V DE 4PPW 4PPW CW 7-9-2004 1140
5020.0 M01 463-913/#0=##124 irregular pauses, varying CW 9-9-2004
Thu 2000 (HFD)
5091.0 E10 JSR 12 TVULC USB 27-9-2004 Mon 0330 (BS4)
5153.7 MX Cluster beacon "D", Odessa CW 30-9-2004 0552 (WC)
5153.9 MX Cluster beacon "S", Arkhangelsk CW 30-9-2004 0552
5170.0 E10 SYN2//6912 USB 27-9-2004 Mon 2245 (BS4)

5170.0 E10 SYN2//6912, 7605 USB 29-9-2004 Wed 0145 (BS4)
5230.0 E10 CI02//6930 USB 27-9-2004 Mon 2245 (BS4)
5230.0 E10 CI02//6930, 7445 USB 29-9-2004 Wed 0145 (BS4)
5301.0 S17C ID 555 Strong 20 over 9 AM 10-9-2004 Fri 1245 (Red)
5301.0 S17C 68042, //8190 AM 12-9-2004 Sun 1250 (HFD)
5339.0 E10 VLB2 USB 29-9-2004 Wed 0045 (BS4)
5394.0 M13 ID: 572, DK: 241, 21x5f grps CW 21-9-2004 Tue 0600 (ANEUR)
5394.0 M13 ID: 572, DK: 241, 21x5f grps, repeat of xmission of Sep. 21, CW 22-9-2004 Wed 0600 (ANEUR)
5435.0 E10 ART2 USB 1-9-2004 Wed 0200 (BS4)
5435.0 E10 ART in tfc USB 8-9-2004 Wed 0130 (BS4)
5435.0 E10 ART2 USB 8-9-2004 Wed 0200 (BS4)
5435.0 E10 ART 2 No message // 9202 USB 13-9-2004 Mon 0200 (MT2)
5435.0 E10 //7918 USB 14-9-2004 Tue 0130 (DM)
5435.0 E10 YHF // 7918 until 0138, then second message on this frequency USB 22-9-2004 Wed 0135 (MT2)
5435.0 E10 ART2 USB 22-9-2004 Wed 0200 (BS4)
5435.0 E10 ART2 USB 27-9-2004 Mon 0005 (BS4)
5465.8 MX Channel marker "R", Izhevsk CW 30-9-2004 0039 (WC)
5635 M89 V GM3Z GM3Z GM3Z DE PNW9 PNW9 CW 30-9-2004 1247 (DJ)
5788.0 M12 ID: 462, DK: 736, 1 message, 89x5f, signoff: CW 22-9-2004 Wed 1740 (ANEUR)
5820.0 E10 YHF2 USB 22-9-2004 Wed 0200 (BS4)
5934.0 G06 579, heavy BC qrm AM 9-9-2004 Thu 1830 (HFD)
5982 MX Channel marker "P", Kaliningrad. Interrupted by RDL msgs. Beacon had some problems and transmitted "PW" for hours CW 16-9-2004 (FN)
6261.0 M01 463-333/33=12267 CW 11-9-2004 Sat 1500 (HFD)
6270.0 E10 ULX2/4880 USB 5-9-2004 Sun 1830 (JS3)
6270.0 E10 ULX 87 0?GDH USB 11-9-2004 Sat 2300 (BS4)
6270.0 E10 ULX2 //7760 USB 13-9-2004 Mon 0100 (DM)
6270.0 E10 ULX 37 WARIT//7760 USB 23-9-2004 Thu 0100 (BS4)
6270.0 E10 ULX 37 WARIT//7760 USB 24-9-2004 Fri 0100 (BS4)
6270.0 E10 ULX 90 JXYHP, 16 ZUXLD//7760 USB 28-9-2004 Tue 0100 (BS4)
6370.0 E10 VLB2//7690 USB 29-9-2004 Wed 0145 (BS4)
6498.0 E10 PCD2 USB 6-9-2004 Mon 2230 (BS4)
6498.0 E10 PCD2 USB 27-9-2004 Mon 0030 (BS4)
6498.0 E10 PCD2 USB 27-9-2004 Mon 0330 (BS4)
6840.0 E10 EZI USB 1-9-2004 Wed 0130 (RU)
6840.0 E10 EZI 96 MPRNU//9130 USB 1-9-2004 Wed 0130 (BS4)
6840.0 E10 EZI 70 NRXZS USB 1-9-2004 Wed 0200 (BS4)
6840.0 E10 EZI USB 5-9-2004 Sun 0250 (MT2)
6840.0 E10 EZI2 AM 5-9-2004 Sun 1900 (JS3)
6840.0 E10 EZI USB 6-9-2004 Mon 0230 (MT2)
6840.0 E10 EZI2//9130 USB 8-9-2004 Wed 0130 (BS4)
6840.0 E10 EZI 70 NR?ZS//9130 USB 8-9-2004 Wed 0200 (BS4)

6840.0 E10 EZI // 9130 USB 9-9-2004 Thu 0203 (MT2)
6840.0 E10 in progress // 9130 USB 11-9-2004 Sat 0205 (MT2)
6840.0 E10 EZI 71 PGL0X//11565, 9130 USB 11-9-2004 Sat 2230 (BS4)
6840.0 E10 //4661 //9130 USB 11-9-2004 Sat 2330 (DM)
6840.0 E10 EZI 2 No message // 9130 USB 13-9-2004 Mon 0131 (MT2)
6840.0 E10 in progress. "end group 19" // 9130 USB 13-9-2004
Mon 0205 (MT2)
6840.0 E10 USB 13-9-2004 Mon 0330 (SE-G)
6840.0 E10 USB 17-9-2004 Fri 2130 (SE-G)
6840.0 E10 EZI 2. No message // 9130 USB 22-9-2004 Wed 0132 (MT2)
6840.0 E10 EZI 44 AGJZV USB 22-9-2004 Wed 0200 (BS4)
6840.0 E10 EZI2//9130 USB 23-9-2004 Thu 0100 (BS4)
6840.0 E10 EZI2//9130 USB 27-9-2004 Mon 0330 (BS4)
6840.0 E10 EZI2//9130 USB 28-9-2004 Tue 0100 (BS4)
6840.0 E10 EZI 10 DHQEC//9130 USB 29-9-2004 Wed 0130 (BS4)
6850.4 X06 Mazielka calls 17-9-2004 2301 (RTI)
6856.0 M08c faint; i/p CW 15-9-2004 Wed 0215 (BM)
6912.0 E10 SYN2//5170 USB 27-9-2004 Mon 2245 (BS4)
6912.0 E10 SYN2 USB 28-9-2004 Tue 0345 (BS4)
6912.0 E10 SYN2//5170, 7605 USB 29-9-2004 Wed 0145 (BS4)
6915.0 E10 Null message that was attacked by a bubble-type
jammer. Call AM 25-9-2004 Sat 0445 (DAP)
6930.0 E10 Null message that was attacked by a bubble-type
jammer. Call AM 26-9-2004 Sun 0145 (DAP)
6930.0 E10 CI02//5230 USB 27-9-2004 Mon 2245 (BS4)
6930.0 E10 CI02//4648 USB 28-9-2004 Tue 0345 (BS4)
6930.0 E10 CI02//5230, 7445 USB 29-9-2004 Wed 0145 (BS4)
6934.0 E07 913:0 AM 1-9-2004 Wed 0510 (HFD)
6934.0 E07 913:0 AM 1-9-2004 Wed 0510 (HFD)
6959.0 E03 Lincolnshire Poacher: ID: 12860 Good signal in NE PA,
USA USB 10-9-2004 Fri 2206 (Red)
6978 M21 Russian Air Defense. Station id "8" CW 30-9-2004
6985.0 E10 Calling "Alpha Romeo Tango" until 12:05; then into
5LG. "End AM 25-9-2004 Sat 0400 (DAP)
6986.0 E10 ART 13 KRWHB USB 4-9-2004 Sat 0400 (BS4)
6986.0 E10 ART2 AM 5-9-2004 Sun 1900 (JS3)
6986.0 E10 USB 13-9-2004 Mon 0400 (SE-G)
6987.0 E10 ART for group 65 AM 4-9-2004 Sat 1930 (LC2)
7038.0 MX D odessa CW 4-9-2004 Sat 1945 (LC2)
7039 MX Cluster beacon "C", Moscow CW 30-9-2004 0552 (WC)
7039.7 MX Cluster beacon "D", Odessa CW 30-9-2004 0552 (WC)
7445.0 E10 CI02//5230, 6930 USB 29-9-2004 Wed 0145 (BS4)
7512 S39 The Pip. Harmonic or separate transmission? Not always
in sync with 3756 kHz CW 5-9-2004 1806 (KB)
7540.0 E10 JSR 40 AIGSO AM 5-9-2004 Sun 1900 (JS3)
7605.0 E10 SYN2//5170, 6912 USB 29-9-2004 Wed 0145 (BS4)
7690.0 E10 VLB2//6370 USB 29-9-2004 Wed 0145 (BS4)
7760.0 E10 ULX2 //6270 USB 13-9-2004 Mon 0100 (DM)

7760.0 E10 ULX 37 WARIT//6270 USB 23-9-2004 Thu 0100 (BS4)
7760.0 E10 ULX 37 WARIT//6270 USB 24-9-2004 Fri 0100 (BS4)
7760.0 E10 ULX 90 JXYHP, 16 ZUXLD//6270 USB 28-9-2004 Tue 0100 (BS4)
7811.0 E10 KPA2//3360, 4648 USB 29-9-2004 Wed 0115 (BS4)
7892.0 S06 in progress AM 2-9-2004 Thu 1945 (LC2)
7918.0 E10 YHF 107 SMEBQ USB 1-9-2004 Wed 0130 (BS4)
7918.0 E10 YHF2 USB 1-9-2004 Wed 0200 (BS4)
7918.0 E10 YHF 107 SMEBQ USB 8-9-2004 Wed 0130 (BS4)
7918.0 E10 YHF2 USB 8-9-2004 Wed 0200 (BS4)
7918.0 E10 in progress. USB 9-9-2004 Thu 0148 (MT2)
7918.0 E10 YHF2 Call up with no message. USB 9-9-2004 Thu 0201
7918.0 E10 //5435 USB 14-9-2004 Tue 0130 (DM)
7918.0 E10 YHF. // 5435. This broadcast ended and 5435 continued. USB 22-9-2004 Wed 0135 (MT2)
7918.0 E10 YHF 149 MYYCR USB 29-9-2004 Wed 0130 (BS4)
8025 S25 245 245 245 67765 67765 (rptd) 245 245 245 54865 54865 (rptd) 22222 00000 AM 24-9-2004 1540 (IB)
8025.0 E10 MIW2 USB 29-9-2004 Wed 0115 (BS4)
8079 M42 Russian Intel. Msg to "162" BAUDOT 200.33Bd/500Hz 4-9-2004 2020 (LDO)
8103.0 E07 913:0 AM 8-9-2004 Wed 0530 (HFD)
8139.0 E06 527:0 AM 1-9-2004 Wed 2100 (HFD)
8190.0 S17C ID 555.. very strong 20 over 9 in Rommele Sweden EWE Array in AM 10-9-2004 Fri 1245 (Red)
8190.0 S17C 73035 AM 11-9-2004 Sat 1250 (HFD)
8190.0 S17C 68042, //5301 AM 12-9-2004 Sun 1250 (HFD)
8190.0 S17C Listening on Vidablick DX Remote Internet Tuner.. somewhat we AM 12-9-2004 Sun 1250 (Red)
8190.0 S17C Very strong signal. ID: 555 AM 14-9-2004 Tue 1245
8190.0 S17C Strong into Dxtuner Rommelle Sweden. ID: 555 AM 19-9-2004 Sun 1245 (Red)
8494.7 MX Cluster beacon "D", Odessa CW 30-9-2004 0552 (WC)
8495 MX Cluster beacon "C", Moscow CW 30-9-2004 0552 (WC)
8544.0 E11 312/00 ID, real strong signal USB 10-9-2004 Fri 1230
8588.0 XSL Japanese Naval PSK modem USB 11-9-2004 Sat 1433 (BM)
8759.0 E11 312/00 ID, real strong signal. USB 10-9-2004 Fri 1030
8759.0 E11 312/00 AM 17-9-2004 Fri 1030 (HFD)
8870 V25 Chinese lady with numbers AM 28-8-2004 1310 (JV)
8870 V25 Chinese lady with numbers AM 25-9-2004 1300 (JV)
9062.0 M08c i/p CW 9-9-2004 Thu 0408 (BM)
9067.0 M12 303x3 000 (R2) (Null Sked) CW 9-9-2004 Thu 0400 (MS)
9085.0 XP Solid 20 over 9 signal. Musical tones representing numbers AM 14-9-2004 Tue 0600 (Red)
9105 X06 Mazielka calls 7-9-2004 2000 (JS3)
9130.0 E10 EZI 96 MPRNU//6840 USB 1-9-2004 Wed 0130 (BS4)
9130.0 E10 EZI 45 ?AS?D USB 2-9-2004 Thu 0300 (BS4)
9130.0 E10 In progress USB 4-9-2004 Sat 0212 (MT2)

9130.0 E10 EZI (X3) 0230; X1 0231; start 0233; message 0235 USB
 4-9-2004 Sat 0230 (MT2)
 9130.0 E10 EZI 33 JLRTI USB 6-9-2004 Mon 2200 (BS4)
 9130.0 E10 EZI 25 XPITD//11565 USB 6-9-2004 Mon 2230 (BS4)
 9130.0 E10 EZI2//6840 USB 8-9-2004 Wed 0130 (BS4)
 9130.0 E10 EZI 70 NR?ZS//6840 USB 8-9-2004 Wed 0200 (BS4)
 9130.0 E10 EZI // 6840 USB 9-9-2004 Thu 0207 (MT2)
 9130.0 E10 in progress // 6840 USB 11-9-2004 Sat 0208 (MT2)
 9130.0 E10 EZI 87 RELRZ, 58 NWLZL AM 11-9-2004 Sat 0230 (BS4)
 9130.0 E10 EZI 71 PGLOX//11565, 6840 USB 11-9-2004 Sat 2230 (BS4)
 9130.0 E10 //4661 //6840 USB 11-9-2004 Sat 2330 (DM)
 9130.0 E10 EZI2 USB 12-9-2004 Sun 2130 (BS4)
 9130.0 E10 EZI 2 No message //6840 USB 13-9-2004 Mon 0131 (MT2)
 9130.0 E10 in progress. "end group 19" // 6840 USB 13-9-2004
 Mon 0205 (MT2)
 9130.0 E10 EZI 179 RXCFJ USB 14-9-2004 Tue 0300 (BS4)
 9130.0 E10 EZI 82 F?YGK, ?? ????? USB 16-9-2004 Thu 0230 (BS4)
 9130.0 E10 EZI. Very low modulation. No // 6840 heard USB
 19-9-2004 Sun 0202 (MT2)
 9130.0 E10 EZI 2. No message // 6840 USB 22-9-2004 Wed 0132
 9130.0 E10 EZI 179 RXCFJ USB 22-9-2004 Wed 0300 (BS4)
 9130.0 E10 EZI2//6840 USB 23-9-2004 Thu 0100 (BS4)
 9130.0 E10 EZI2 USB 24-9-2004 Fri 0100 (BS4)
 9130.0 E10 EZI2//6840 USB 27-9-2004 Mon 0330 (BS4)
 9130.0 E10 EZI2//6840 USB 28-9-2004 Tue 0100 (BS4)
 9130.0 E10 EZI 10 DHQEC//6840 USB 29-9-2004 Wed 0130 (BS4)
 9130.0 E10 in progress. // 4560 (which was the better frequency)
 USB 29-9-2004 Wed 0236 (MT2)
 9165.0 S10d Female, 3 letter group in slavic language USB
 10-9-2004 Fri 0201 (MT2)
 9202.0 E10 ART 2 No message // 5435 USB 13-9-2004 Mon 0200 (MT2)
 9251.0 E03 L.P. 06749 USB 12-9-2004 Sun 2130 (BS4)
 9251.0 E03 USB 17-9-2004 Fri 2100 (SE-G)
 9251.0 E03 USB 17-9-2004 Fri 2200 (SE-G)
 9252.0 E03 ID 02860 USB 2-9-2004 Thu 2100 (LC2)
 9323.0 V02a A 87865 79023 77394 - note messages with unusually
 high repea AM 9-9-2004 Thu 0402 (BM)
 9330.0 M08a Strong signal, S9 CW 1-9-2004 Wed 0400 (ZW)
 10125.0 M08c i/p CW 5-9-2004 Sun 0313 (BM)
 10165 M42 Russian Intel. Msg to "162" BAUDOT 200.33Bd/500Hz
 4-9-2004 2010 (LDO)
 10170.0 S06 254:0 AM 7-9-2004 Tue 1850 (HFD)
 10198.5 M42 Dep. of State Comms, Moscow 32-tone/40Bd MFSK
 12-9-2004 1212 (LDO)
 10205 X06 Mazielka calls 7-9-2004 2000 (JS3)
 10210.0 S06 472-648/103=73260 AM 11-9-2004 Sat 1800 (HFD)
 10292.0 E07 462:1-326/99=25174 AM 8-9-2004 Wed 2040 (HFD)
 10358.0 XP Solid sig AM 14-9-2004 Tue 0620 (Red)

10445.0 M08c i/p CW 9-9-2004 Thu 0336 (BM)
10446.0 M08c ID 11884 55782 12064 CW 9-9-2004 Thu 0300 (MS)
10446.0 V02 USB 7-9-2004 Tue 0300 (SE-J)
10446.0 V02a sounded like spanish USB 7-9-2004 Tue 0300 (CE-C)
10714.0 M08a CW 14-9-2004 Tue 0200 (DM)
10871.7 MX Cluster beacon "D", Odessa CW 30-9-2004 0552 (WC)
10871.9 MX S Arkhangelsk CW 1-9-2004 Wed 2130 (LC2)
10871.9 MX Cluster beacon "S", Arkhangelsk CW 30-9-2004 0552
10872.0 MX C Moscou CW 1-9-2004 Wed 2130 (LC2)
10872.0 MX RR cluster beacon CW 9-9-2004 Thu 0412 (BM)
10935.0 E07 340 very weak AM 16-9-2004 Thu 2010 (HFD)
11093 X06 Mazielka calls 7-9-2004 2000 (JS3)
11545.0 E03 66309 USB 10-9-2004 Fri 1900 (DM)
11545.0 E03 Listening on dxtuner Rommele. Coming in very strong.
ID 1851 USB 12-9-2004 Sun 1500 (Red)
11545.0 E03 USB 12-9-2004 Sun 1600 (SE-J)
11545.0 E03 USB 12-9-2004 Sun 1700 (SE-J)
11545.0 E03 USB 12-9-2004 Sun 1900 (SE-J)
11565.0 E10 EZI 25 XPITD//9130 USB 6-9-2004 Mon 2230 (BS4)
11565.0 E10 EZI 71 PGL0X//9130, 6840 USB 11-9-2004 Sat 2230 (BS4)
11565.0 M08c i/p CW 9-9-2004 Thu 0410 (BM)
11585.0 XP Solid sig.. USA Family Radio underneath. AM 14-9-2004
Tue 0640 (Red)
11625.0 E07 462:1-326/99=25174 AM 8-9-2004 Wed 2020 (HFD)
12119.0 M08a strong RTTY signal in background CW 14-9-2004 Tue 0130
(DM)
12180.0 V02a A _____ 31833 AM 15-9-2004 Wed 0222 (BM)
12215.0 V02a another "attencion" in background of main broadcast AM
16-9-2004 Thu 0201 (MT2)
12603.0 E03 Lincolnshire Poacher; morse "DESV0 [3 sec. dash]" loop
starte USB 3-9-2004 Fri 2200 (MT2)
12603.0 E03 USB 12-9-2004 Sun 1800 (SE-J)
13375.0 E04 only copied the last 75 groups, bcst ended with: oo CW
5-9-2004 Sun 0328 (AtB)
13381.0 V07 372:0 AM 9-9-2004 Thu 0600 (HFD)
13415.0 E07 462:1-326/99=25174 AM 8-9-2004 Wed 2000 (HFD)
13415.0 E07 462:1-2095/117= 25683 AM 15-9-2004 Wed 2000 (HFD)
13527.7 MX Cluster beacon "D", Odessa CW 30-9-2004 0552 (WC)
13527.9 MX Cluster beacon "S", Arkhangelsk CW 30-9-2004 0552
13528 MX Cluster beacon "C", Moscow CW 30-9-2004 0552 (WC)
14487.0 E03 Good signal today S4 and no jammer QRM USB 9-9-2004
Thu 1200 (ZW)
15682.0 E03 Extremely weak here today, mostly in noise USB
1-9-2004 Wed 1200 (ZW)
15682.0 E03 I/P; good signal S6 today USB 9-9-2004 Thu 1200 (ZW)
15828 X06 Mazielka calls 14-9-2004 1623 (JS3)
16084.0 E03 Extremely weak here today, mostly in noise USB
1-9-2004 Wed 1200 (ZW)

16084.0 E03 I/P; S5 signal today USB 9-9-2004 Thu 1200 (ZW)
 16331.9 MX Cluster beacon "S", Arkhangelsk CW 30-9-2004 0552
 18864.0 E04 Cherry Ripe; good signal S4-S6 USB 9-9-2004 Thu 1300
 18864.0 E04 Cherry Ripe ID: 70159 USB 10-9-2004 Fri 1300 (Red)
 18864.0 E04 USB 12-9-2004 Sun 2300 (SE-J)
 18864.0 E04 Cherry Ripe with a nice signal. ID: 20751 USB
 14-9-2004 Tue 1300 (Red)
 20047.8 MX P kalingrad CW 1-9-2004 Wed 1330 (LC2)
 20048.9 MX Cluster beacon "S", Arkhangelsk CW 30-9-2004 0552
 20474.0 E04 USB 13-9-2004 Mon 1000 (SE-J)

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